

KUHP Series Panel Relay

- AC coils 6 to 277VAC 50/60Hz, DC 6 to 110VDC
- Contact arrangement up to 2 form C (CO)
- .250" combination push-on/solder terminals or PC terminals
- Side flange and top flange mounting
- Designed to meet VDE space requirements: Class B coil insulation

Typical applications Commercial HVAC, smart-grid communications controllers, baggage handling, pumps



Contact Data	1 pole	2 pole
Contact arrangement	1 form C (CO)	2 form C (CO)
	1 form A (NO)	2 form A (NO)
	1 form B (NC)	2 form B (NC)
Rated voltage	240VAC	240VAC
Rated current	30A	20A
Contact material	AgCdO	AgCdO, AgSnOlnO
Min. recommended contact load	300mA, 12VDC	300mA, 12VDC
Initial contact resistance	200mΩ	$200 \text{m}\Omega$
Frequency of operation	360 ops./hour	360 ops./hour
Operate/release time max.	20/20ms	20/20ms
Bounce time max.	20ms	20ms

Contact ra	tings	
Туре	Load	
III ENO		

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UL 508		
1 pole, AgCdO		
	30A, 240VAC	100x10 ³
	1HP, 120VAC	100x10 ³
	1 1/2HP, 240VAC	100x10 ³
	30 FLA, 96 LRA	100x10 ³
	30A, 28 VDC	50x10 ³
	10A, 480VAC	6x10 ³
	1/2HP, 480VAC	25x10 ³
	1HP, 480VAC, 3 phase	6x10 ³
	1/2HP, 600VAC	25x10 ³
2 pole, AgCdO		
	20A, 240VAC	100x10 ³
	3/4HP, 120VAC	100x10 ³
	1 1/2HP, 240VAC	100x10 ³
	20 FLA, 83 LRA	100x10 ³
	20A, 28 VDC	50x10 ³
	10A, 480VAC	6x10 ³
	1/2HP, 480VAC	25x10 ³
	1HP, 480VAC, 3 phase	6x10 ³
	1/2HP, 600VAC	25x10 ³
2 pole AgSnOlr	10	
	20 A, 240 VAC	25x10 ³
	10.106	

Coil Data		
Coil voltage range	6 to 110VDC	
	6 to 277VAC	
Coil insulation system according UL	Class B	







Coil vers	sions, DC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
006	6	4.5	32.1	1.13
012	12	9.0	120	1.20
024	24	18.0	472	1.23
048	48	36.0	1800	1.30
110	110	82.5	10000	1.22

All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil	versions,	AC.	coil
COII	versions.	AC	COII

Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	Ω±15%	VA
006	6	5.1	4.2	2.8
012	12	10.2	18	2.8
024	24	20.4	72	2.8
120	120	102.0	1700	2.9
240	240	204.0	7200	2.9
277	277	235.5	10250	2.5

All figures are given for coil without preenergization, at ambient temperature +23°C, 60 Hz.

1200V _{rms}
$3750V_{rms}$
3750V _{rms}
2000V _{rms}
100MΩ at 500VDC

Cycles

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature DC coil

-45°C to 70°C AC coil -45°C to 45°C Category of environmental protection

IEC 61810

RT0 - open style Vibration resistance (functional) .065" double amplitude, 10-55Hz 15g, 11ms (non-operating)

Shock resistance (functional) Terminal type

Terminal retention, push force QC.205 17lbs for 3s QC.110, QC,187, QC.250, all PCB 25lbs for 3s

Weight 92g Packaging/unit tray/25 pcs., box/150pcs.

Mechanical endurance

10x106 ops.

RTI - dust protected and

QC.250, PCB .047



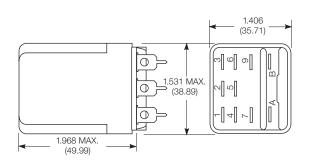
KUHP Series Panel Relay (Continued)

Accessories

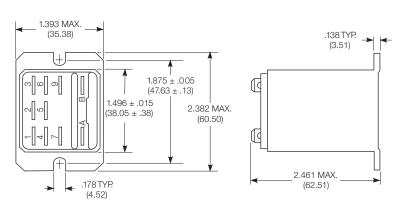
NOTE: no sockets are available for this relay

Dimensions

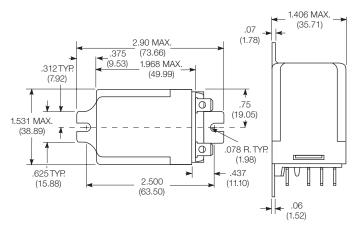




Top flange enclosure



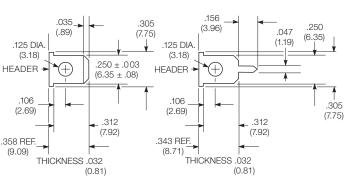
Bracket mount case



Terminal dimensions

6.35mm (.250") Quick Connect/Solder

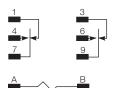
Printed circuit



Terminal assignment

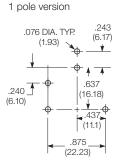
- 1 Form C
- 1 Form A (delete 2)
- 1 Form B (delete 5)
- 2 Form C
- 2 Form A (delete 1 and 3)
- 2 Form B (delete 4 and 6)

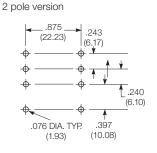




PCB layout

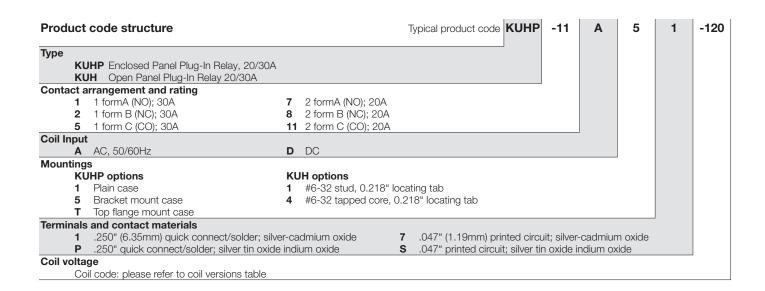
Bottom view on solder pins







KUHP Series Panel Relay (Continued)



Product Code	Arrangement	Mounting	Coil	Terminals	Part Number
KUHP-5DT1-12	1 form C, 1 CO	top flange	12VDC	.250" quick connect	8-1393114-7
KUHP-5DT1-24			24VDC		8-1393114-8
KUHP-5D51-24		bracket			9-1393114-1
KUHP-5D51-12			12VDC		9-1393114-0
KUHP-5A51-24			24VAC		8-1393114-5
KUHP-5A51-120			120VAC		8-1393114-4
KUHP-5AT1-120		top flange			8-1393114-1
KUHP-11A51-24		bracket	24VAC		7-1393114-0
KUHP-11A51-240	2 form C, 2 CO		240VAC		7-1393114-1
KUHP-11AT1-120		top flange	120VAC		6-1393114-5
KUHP-11DT1-24			24VDC		7-1393114-3
KUHP-11D51-12		bracket	12VDC		7-1393114-7
KUHP-11D51-24			24VDC		7-1393114-8
KUHP-11DT1-12		top flange	12VDC		7-1393114-2